

UF_GDT_characteristic_e [\(view source\)](#)

Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_characteristic_t`
- `UF_GDT_characteristic_p_t`

Overview

Defines the set of valid feature control frame characteristic GD&T types

Data Members

UF_GDT_STRAIGHTNESS_TYPE

GDT form type - straightness

UF_GDT_FLATNESS_TYPE

GDT form type - flatness

UF_GDT_CIRCULAR_TYPE

GDT form type - circular

UF_GDT_CYLINDRICAL_TYPE

GDT form type _ cylindrical

UF_GDT_LINE_PROFILE_TYPE

GDT profile type - line profile

UF_GDT_SURFACE_PROFILE_TYPE

GDT profile type - surface profile

UF_GDT_ANGULAR_TYPE

GDT orientation type - angular

UF_GDT_PERPENDICULAR_TYPE

GDT orientation type - perpendicular

UF_GDT_PARALLEL_TYPE

GDT orientation type - parallel

UF_GDT_POSITION_TYPE

GDT position type - position

UF_GDT_CONCENTRIC_TYPE

GDT position type - concentric

UF_GDT_SYMMETRIC_TYPE

GDT position type - symmetric

UF_GDT_CIRCULAR_RUNOUT_TYPE

GDT runout type - circular runout

UF_GDT_TOTAL_RUNOUT_TYPE

GDT runout type - total runout

UF_GDT_data_type_e [\(view source\)](#)

Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_data_type_t`
- `UF_GDT_data_type_p_t`

Overview

Defines an enumerated type for each data structure inside the GD&T module used in the `UF_GDT_free` routine

Data Members

`UF_GDT_DATA_FRAME_TYPE`

`UF_GDT_data_frame_t`

`UF_GDT_DATUM_IDENT_TYPE`

`UF_GDT_datum_identifier_t`

`UF_GDT_DATUM_REF_TYPE`

`UF_GDT_datum_reference_t`

`UF_GDT_DESCRIPT_TYPE`

`UF_GDT_description_t`

`UF_GDT_DIRECTED_DIM_TYPE`

`UF_GDT_directed_dimension_t`

`UF_GDT_FCF_TYPE`

`UF_GDT_fcf_t`

`UF_GDT_MOD_DATA_TYPE`

`UF_GDT_modifier_data_t`

`UF_GDT_MULTI_DATUM_TYPE`

`UF_GDT_multiple_datum_t`

`UF_GDT_SIZE_TOL_TYPE`

`UF_GDT_size_tolerance_t`

`UF_GDT_STATISTICAL_TYPE`

`UF_GDT_statistical_info_t`

`UF_GDT_SURFACE_PARMS_TYPE`

`UF_GDT_surface_parms_t`

`UF_GDT_TARGET_POINT_TYPE`

`UF_GDT_datum_target_point_t`

`UF_GDT_TARGET_LINE_TYPE`

`UF_GDT_datum_target_line_t`

`UF_GDT_TARGET_AREA_TYPE`

Obsolete in V15.0

`UF_GDT_TOL_VALUE_TYPE`

`UF_GDT_tolerance_value_t`

`UF_GDT_TOL_ZONE_TYPE`

`UF_GDT_tolerance_zone_t`

`UF_GDT_FEAT_PARMS_TYPE`

`UF_GDT_feature_parms_t`

UF_GDT_DIA_AREA_TYPE

UF_GDT_target_dia_area_t

UF_GDT_RECT_AREA_TYPE

UF_GDT_target_rect_area_t

UF_GDT_CYL_AREA_TYPE

UF_GDT_target_cyl_area_t

UF_GDT_UDEF_AREA_TYPE

UF_GDT_target_undef_area_t

UF_GDT_ANNOTATION_TAGS_TYPE

UF_GDT_annotation_tags_t

UF_GDT_CALLOUT_STR_TYPE

UF_GDT_callout_strings_t

UF_GDT_DEPTH_TOL_TYPE

UF_GDT_depth_tolerance_t

UF_GDT_LIM_FITS_TOL_TYPE

UF_GDT_limits_and_fits_tolerance_t

UF_GDT_DATUM_REF_FRAME_TYPE

UF_GDT_drf_data_t

UF_GDT_THREAD_TYPE

UF_GDT_thread_data_t

UF_GDT_MODL_DATA_TYPE

UF_GDT_modl_data_t

UF_GDT_PRODUCT_ATT_TYPE

UF_GDT_product_attribute_t

UF_GDT_datum_assoc_type_e ([view source](#))Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_datum_assoc_type_t`
- `UF_GDT_datum_assoc_type_p_t`

Overview

Defines an enumerated type for each method of associating a datum display instance to the model.

Data Members**UF_GDT_FEATURE_EDGE**

datum is attached to a feature edge

UF_GDT_DOTTED_DATUM

datum is attached to stub of dotted leader

UF_GDT_ATTACHED_TO_FCF

datum is attached to an fcf

UF_GDT_ATTACHED_TO_STUB

datum is attached to a leader stub

UF_GDT_DIRECTED_DATUM

datum is part of a directed datum instance

UF_GDT_EXTENSION_LINE

datum is attached to a dimension ext. line

UF_GDT_default_gage_type_e ([view source](#))

Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_default_gage_type_t`
- `UF_GDT_default_gage_type_p_t`

Overview

The following enumerated type defines the restrained condition for a GD&T part

Data Members

UF_GDT_SEPARATE_GAGE = 1

UF_GDT_SIMULTANEOUS_GAGE = 2

UF_GDT_directed_dimension_type_e ([view source](#))

Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_directed_dimension_type_t`
- `UF_GDT_directed_dimension_type_p_t`

Overview

The following enumerated type defines the directed dimension types available in the tolerancing module.

Data Members

UF_GDT_LINEAR_DIRECTED_DIMENSION

Linear directed dimension

UF_GDT_ANGULAR_DIRECTED_DIMENSION

Angular directed dimension

UF_GDT_edge_select_type_e [\(view source\)](#)

Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_edge_select_type_t`
- `UF_GDT_edge_select_type_p_t`

Overview

The following enumerated type defines the different feature edge selection methods for GD&T,

Data Members

`UF_GDT_EDGE_SELECT_ON = 1`

`UF_GDT_EDGE_SELECT_OFF = 2`

`UF_GDT_EDGE_SELECT_ALWAYS = 3`

UF_GDT_feature_type_e [\(view source\)](#)

Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_feature_type_t`
- `UF_GDT_feature_type_p_t`

Overview

Defines the valid set of feature types which can describe the geometry of a tolerance feature

Data Members

`UF_GDT_GENERAL_FEATURE`
General feature type

`UF_GDT_SLOT_FEATURE`
Slot feature type

`UF_GDT_TAB_FEATURE`
Tab feature type

`UF_GDT_HOLE_FEATURE`
Hole feature type

`UF_GDT_PIN_FEATURE`
Pin feature type

`UF_GDT_SOCKET_FEATURE`
Socket feature type

UF_GDT_BALL_FEATURE

Ball feature type

UF_GDT_ELONGATED_HOLE_FEATURE

Elongated hole feature type

UF_GDT_PLANE_FEATURE

Plane feature type

UF_GDT_BOUNDED_FEATURE

Bounded feature type

UF_GDT_TAPERED_HOLE_FEATURE

Tapered hole feature type

UF_GDT_TAPERED_PIN_FEATURE

Tapered pin feature type

UF_GDT_HOLLOW_TORUS_FEATURE

Hollow torus feature type

UF_GDT_SOLID_TORUS_FEATURE

Solid torus feature type

UF_GDT_HOLLOW_REVOLVED_FEATURE

Hollow revolved feature type

UF_GDT_SOLID_REVOLVED_FEATURE

Solid revolved feature type

UF_GDT_COUNTERBORE_HOLE_FEATURE

Counterbore hole feature type

UF_GDT_COUNTERSINK_HOLE_FEATURE

Countersink hole feature type

UF_GDT_EDGE_BLEND_FEATURE

Edge blend feature type

UF_GDT_THICKNESS_GAP_FEATURE

Thickness/Gap feature type

UF_GDT_STEPPED_SHAFT_FEATURE

Stepped shaft feature type

UF_GDT_STEPPED_HOLE_FEATURE

Stepped hole feature type

UF_GDT_COMPLEX_ELONGATED_HOLE_FEATURE

Complex elongated hole feature type

UF_GDT_OPPPOSED_POINT_FEATURE

Opposed point element feature type

UF_GDT_OPPPOSED_LINE_FEATURE

Opposed line element feature type

UF_GDT_THREAD_FEATURE

Thread Feature Type

UF_GDT_MODEL_AXIS_FEATURE

Modeling Axis Feature Type

UF_GDT_MODEL_PLANE_FEATURE

Modeling Plane Feature Type

UF_GDT_SPLINE_FEATURE

Spline feature type

UF_GDT_GEAR_FEATURE

Gear feature type

UF_GDT_CIRCULAR_TOOTH_THICKNESS_FEATURE

Circular tooth thickness type

UF_GDT_CIRCULAR_SPACE_WIDTH_FEATURE

Circular space width type

UF_GDT_PIN_MEASUREMENT_FEATURE

Pin measurement feature

UF_GDT_geometric_definition_type_e ([view source](#))Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_geometric_definition_type_t`
- `UF_GDT_geometric_definition_type_p_t`

Overview

The following enumerated type defines the orientation and region types available in the tolerancing module.

Data Members**UF_GDT_ALL_GEOMETRY**

No Definition

UF_GDT_PLANAR_ORIENTATION

Planar Orientation

UF_GDT_PLANAR_CROSS_SECTION

Planar Cross Section

UF_GDT_REGION

Region

UF_GDT_POINT

Point

UF_GDT_RECTANGULAR_REGION

Rectangular Bounded Region

UF_GDT_CIRCULAR_REGION

Circular Bounded Region

UF_GDT_index_display_type_e ([view source](#))Defined in: `uf_gdt.h`

Also known as:

- UF_GDT_index_display_type_t
- UF_GDT_index_display_type_p_t

Overview

The following enumerated type defines the valid index display methods for GD&T,

Data Members

UF_GDT_UNIQUE = 0

UF_GDT_PART_BASED

UF_GDT_leader_type_e ([view source](#))

Defined in: `uf_gdt.h`

Also known as:

- UF_GDT_leader_type_t
- UF_GDT_leader_type_p_t

Overview

The following enumerated type defines the leader terminator symbols

Data Members

UF_GDT_LEADER_NON_TERMINATED = 0

UF_GDT_LEADER_DATUM

UF_GDT_LEADER_ARROWHEAD

UF_GDT_LEADER_DOT

UF_GDT_limits_and_fits_display_type_e ([view source](#))

Defined in: `uf_gdt.h`

Also known as:

- UF_GDT_limits_and_fits_display_type_t
- UF_GDT_limits_and_fits_display_type_p_t

Overview

The following data structures are defined for limits and fits tolerance, These are used by the limits and fits tolerance ask, set routines.

Functions affected by the modification of these structure are:

[UF_GDT_ask_depth_tolerance_parms](#)

[UF_GDT_set_depth_tolerance_parms](#)

[UF_GDT_set_depth_tolerance_parms](#)

Data Members

UF_GDT_DEFAULT_DISPLAY_TYPE = 0

UF_GDT_LIMITS_DISPLAY_TYPE

UF_GDT_TOLERANCE_DISPLAY_TYPE

UF_GDT_NORMAL_DISPLAY_TYPE

UF_GDT_material_modifier_e [\(view source\)](#)

Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_material_modifier_t`
- `UF_GDT_material_modifier_p_t`

Overview

Defines the allowable material condition modifiers for feature control frame and datum specifications

Data Members

UF_GDT_MMC

Maximum material condition modifier

UF_GDT_LMC

Least material condition modifier

UF_GDT_RFS

Regardless of feature size modifier

UF_GDT_TANGENTIAL

Tangential zone modifier NOTE: The tangential modifier may only be used to modify the tolerance zone of feature control frames. It may not be used to modify datum identifiers, targets, or references

UF_GDT_NO_MOD

No material modifier. NOTE: The UF_GDT_NO_MOD type should be used in place of the RFS type for ASME 1994 and ISO applications

UF_GDT_modifier_types_e [\(view source\)](#)

Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_modifier_types_t`
- `UF_GDT_modifier_types_p_t`

Overview

Defines the allowable zone modifiers for a feature control frame

Data Members

UF_GDT_FREE_STATE

Free state zone refinement (all)

UF_GDT_UNIT_BASIS_LENGTH

Unit basis length refinement
(straightness)

UF_GDT_UNIT_BASIS_AREA

Unit basis area refinement (flatness)

UF_GDT_PROJECTED_ZONE

Projected zone refinement (position)

UF_GDT_STATISTICAL

Statistical refinement (many)

UF_GDT_NO_MODIFIERS

No modifiers

UF_GDT_MAX_BONUS

MAX bonus tolerance specification

UF_GDT_PATTERN_COUNT

Obsolete in V16.0

UF_GDT_INDIVIDUAL_COUNT

Obsolete in V16.0

UF_GDT_SEP_REQT

Obsolete in V16.0

UF_GDT_SIM_REQT

Obsolete in V16.0

UF_GDT_BOUNDARY

Obsolete in V16.0

UF_GDT_ALL_OVER

Obsolete in V16.0

UF_GDT_AVG_DIA

Obsolete in V16.0

UF_GDT_COAX_HOLE_COUNT

Obsolete in V16.0

UF_GDT_NON_MANDATORY_MFG_DATA

Obsolete in V16.0

UF_GDT_NO_PERFECT_MMC_FORM

Obsolete in V16.0

UF_GDT_PERFECT_MMC_ORIENTATION

Obsolete in V16.0

UF_GDT_PERFECT_MMC_COAXIALITY

Obsolete in V16.0

UF_GDT_PERFECT_MMC_SYM_FEAT_LOC

Obsolete in V16.0

UF_GDT_SURFACE_COUNT

Obsolete in V16.0

UF_GDT_THRU

Obsolete in V16.0

UF_GDT_THRU_HOLE

Obsolete in V16.0

UF_GDT_modl_parameter_e ([view source](#))Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_modl_parameter_t`
- `UF_GDT_modl_parameter_p_t`

Overview

The following enumerated type defines the parameter used to map the faces of the modeling feature to the tolerance feature.

Following describes each enum type, how it is related to the modeling feature parameter and how to use it to create tolerance features based on modeling features -

UF_GDT_MODL_PARAM_INVALID:

This enum type is reserved by the system for internal use. It is not available for use.

UF_GDT_MODL_PARAM_NONE:

When this enum type is used, the system knows exactly how to map the faces of modeling feature to tolerance features.

Use with following modeling features -

1. Simple Hole

Modeling Feature Parameter: Hole Diameter

Tolerance feature will reference face defined by Hole Diameter parameter

2. Extrude/Revolve

Tolerance feature will reference cylindrical face in the modeling feature and create GDT pin/hole type tolerance features

3. Cylindrical Pocket

Modeling Feature Parameter: Pocket Diameter

Tolerance feature will reference face defined by Pocket Diameter parameter

4. Counterbore Hole

System will create complex tolerance features/subfeatures -

Complex feature - References hole and counterbore faces

Complex subfeature 1 - References hole face

Complex subfeature 2 - References counterbore face

5. Countersink Hole

System will create complex tolerance features/subfeatures -

Complex feature - References countersink and hole faces

Complex subfeature 1 - References hole face

Complex subfeature 2 - References countersink face

Cross-section definition subfeature for complex subfeature 2

6. Symbolic Thread

System will create complex tolerance features/subfeatures -

Complex feature - References cylindrical face on which thread resides

Complex subfeature - References modeling thread feature

7. Boss

Modeling Feature Parameter: Boss Diameter

Tolerance feature will reference face defined by Boss Diameter parameter

8. Edge Blend

Modeling Feature Parameter: Radius

Tolerance feature will reference faces defined by Radius parameter

UF_GDT_MODL_PARAM_ALL:

Use this enum type to create a GDT general type tolerance feature that references all the faces of the modeling feature. Currently, this is not enabled.

UF_GDT_MODL_PARAM_HOLE:

Use this enum type when creating tolerance feature that will reference cylindrical face of the modeling feature.

Use with following modeling features -

1. Counterbore Hole, Countersink Hole

Modeling Feature Parameter: Hole Diameter

Tolerance feature will reference faces defined by Hole Diameter parameter

UF_GDT_MODL_PARAM_COUNTERBORE:

Use this enum type when creating tolerance feature that will reference cylindrical face of the Counterbore Hole modeling feature.

Modeling Feature Parameter: Counterbore Diameter

Tolerance feature will reference faces defined by Counterbore Diameter parameter

UF_GDT_MODL_PARAM_COUNTERSINK:

Use this enum type when creating tolerance feature that will reference conical face of the Countersink Hole modeling feature.

Tolerance feature will reference conical faces

UF_GDT_MODL_PARAM_X_LENGTH:

Use this enum type when creating tolerance feature that will reference faces of the modeling feature along the X-axis of the feature.

Use with following modeling features -

1. Rectangular Slot, Ball End Slot, U Slot, T Slot

Modeling Feature Parameter: Length

Tolerance feature will reference faces that are defined by Length parameter

2. Rectangular Pad, Rectangular Pocket

Modeling Feature Parameter: X Length

Tolerance feature will reference faces that are defined by X Length parameter

UF_GDT_MODL_PARAM_Y_LENGTH:

Use this enum type when creating tolerance feature that will reference faces of the modeling feature along the Y-axis of the feature.

Use with following modeling features -

1. Rectangular Slot, U Slot

Modeling Feature Parameter: Width

Tolerance feature will reference faces that are defined by Width parameter

2. Ball End Slot

Modeling Feature Parameter: Ball Diameter

Tolerance feature will reference faces separated by distance equal to the ball diameter

3. T Slot

Modeling Feature Parameter: Bottom Width

Tolerance feature will reference faces that are defined by Bottom Width parameter

4. Rectangular Pad, Rectangular Pocket

Modeling Feature Parameter: Y Length

Tolerance feature will reference faces that are defined by Y Length parameter

UF_GDT_MODL_PARAM_X_LENGTH_TOP:

Use this enum type when creating tolerance feature that will reference top faces of the T Slot modeling feature along the X-axis of the feature.

Modeling Feature Parameter: None

UF_GDT_MODL_PARAM_Y_LENGTH_TOP:

Use this enum type when creating tolerance feature that will reference top faces of the T Slot modeling feature along the Y-axis of the feature.

Modeling Feature Parameter: Top Width

Data Members

UF_GDT_MODL_PARAM_INVALID

UF_GDT_MODL_PARAM_NONE

UF_GDT_MODL_PARAM_ALL

UF_GDT_MODL_PARAM_HOLE

UF_GDT_MODL_PARAM_COUNTERBORE

UF_GDT_MODL_PARAM_COUNTERSINK

UF_GDT_MODL_PARAM_X_LENGTH

UF_GDT_MODL_PARAM_Y_LENGTH

UF_GDT_MODL_PARAM_X_LENGTH_TOP

UF_GDT_MODL_PARAM_Y_LENGTH_TOP

UF_GDT_pattern_type_e [\(view source\)](#)

Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_pattern_type_t`
- `UF_GDT_pattern_type_p_t`

Overview

Defines the valid pattern types for a tolerance feature

Data Members

UF_GDT_NO_PATTERN

UF_GDT_RADIAL_PATTERN

Obsolete in V16

UF_GDT_RECTANGULAR_PATTERN

Obsolete in V16

UF_GDT_ARBITRARY_PATTERN

UF_GDT_precedence_e [\(view source\)](#)

Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_precedence_t`
- `UF_GDT_precedence_p_t`

Data Members

UF_GDT_PRECEDENCE_NONE = 0

No Precedence

UF_GDT_PRECEDENCE_PRIMARY

Primary datum reference

UF_GDT_PRECEDENCE_SECONDARY

Secondary datum reference

UF_GDT_PRECEDENCE_TERTIARY

Tertiary datum reference

UF_GDT_profile_type_e [\(view source\)](#)

Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_profile_type_t`
- `UF_GDT_profile_type_p_t`

Overview

Defines the allowable types of profile tolerances.
Outside if defined to be the direction away from material and
inside the direction into material.

Data Members

UF_GDT_PROFILE_EQ_BILATERAL

equally disposed bilateral

UF_GDT_PROFILE_UNILATERAL_OUT

unilateral outside

UF_GDT_PROFILE_UNILATERAL_IN

unilateral inside

UF_GDT_PROFILE_UNEQ_BILATERAL

unequally disposed bilateral

UF_GDT_relation_type_e [\(view source\)](#)

Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_relation_type_t`

Overview

The following enumerated type is used to specify the type of master
model link which is to be broken from the "break relationship" function.

Data Members

UF_GDT_PULL_RELATION_TYPE

link between pulled feature and component

UF_GDT_restrained_condition_e [\(view source\)](#)

Defined in: `uf_gdt.h`

Also known as:

- UF_GDT_restrained_condition_type_t
- UF_GDT_restrained_condition_type_p_t

Overview

The following enumerated type defines the default part gaging standards for GD&T

Data Members

UF_GDT_FREE_STATE_CONDITION = 1

UF_GDT_RESTRAINED_CONDITION = 2

UF_GDT_size_value_type_e ([view source](#))

Defined in: `uf_gdt.h`

Also known as:

- UF_GDT_size_value_type_t
- UF_GDT_size_value_type_p_t

Overview

The following enumerated type defines the size tolerance value types available in the tolerancing module.

Data Members

UF_GDT_NO_SIZE

No size tolerance value

UF_GDT_LINEAR_SIZE

Linear size tolerance

UF_GDT_RADIAL_SIZE

Radial size tolerance

UF_GDT_DIAMETRAL_SIZE

Diametral size tolerance

UF_GDT_ANGULAR_MAJOR_SIZE

Angular major size tolerance

UF_GDT_ANGULAR_MINOR_SIZE

Angular minor size tolerance

UF_GDT_standard_e ([view source](#))

Defined in: `uf_gdt.h`

Also known as:

- UF_GDT_standard_t
- UF_GDT_standard_p_t

Overview

Defines the standards that are supported by the Geometric Tolerancing module

Data Members**UF_GDT_NO_STANDARD**

Standard not specified

UF_GDT_ANSI_1982

ANSI Y14.5M - 1982 standard

UF_GDT_ASME_1994

ASME Y14.5M - 1994 standard

UF_GDT_ISO_1983

ISO 1101 : 1983 standard

UF_GDT_standard_keyword_id_e ([view source](#))

Defined in: `uf_gdt.h`

Also known as:

- UF_GDT_standard_keyword_id_t
- UF_GDT_standard_keyword_id_p_t

Overview

Defines the standard keyword ids

Data Members**UF_GDT_PATTERN_COUNT_KEYWORD**

Pattern Count (3X, etc)

UF_GDT_INDIVIDUAL_COUNT_KEYWORD

INDIVIDUALLY applied

UF_GDT_SEP_REQT_KEYWORD

SEP REQT applied

UF_GDT_SIM_REQT_KEYWORD

SIM REQT applied

UF_GDT_BOUNDARY_KEYWORD

BOUNDARY condition applied

UF_GDT_ALL_OVER_KEYWORD

ALL OVER applied to surfaces

UF_GDT_AVG_DIA_KEYWORD

AVG DIAM applied to size tolerances

UF_GDT_COAX_HOLE_COUNT_KEYWORD

nX COAXIAL HOLES applied

UF_GDT_NON_MANDATORY_MFG_DATA_KEYWORD

NON-MANDATORY MFG DATA applied

UF_GDT_NO_PERFECT_MMC_FORM_KEYWORD

NON-PERFECT FORM AT MMC applied

UF_GDT_PERFECT_MMC_ORIENTATION_KEYWORD**UF_GDT_PERFECT_MMC_COAXIALITY_KEYWORD****UF_GDT_PERFECT_MMC_SYM_FEAT_LOC_KEYWORD****UF_GDT_SURFACE_COUNT_KEYWORD**

n SURFACES applied

UF_GDT_THRU_KEYWORD

THRU applied to feature

UF_GDT_THRU_HOLE_KEYWORD

THRU HOLE applied to feature

UF_GDT_SIM_REQT_N_KEYWORD

SIM REQT N applied to feature

UF_GDT_MAJOR_DIA_KEYWORD

MAJOR DIA applied to thread feature

UF_GDT_MINOR_DIA_KEYWORD

MINOR DIA applied to thread feature

UF_GDT_PITCH_DIA_KEYWORD

PITCH DIA applied to thread feature

UF_GDT_INTERRUPTED_KEYWORD

UF_GDT_stub_direction_e ([view source](#))

Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_stub_direction_t`
- `UF_GDT_stub_direction_p_t`

Overview

The following enumerated type defines the leader stub direction

Data Members

UF_GDT_STUB_LEFT = 1

UF_GDT_STUB_RIGHT

UF_GDT_STUB_UP

UF_GDT_STUB_DOWN

UF_GDT_text_location_e [\(view source\)](#)

Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_text_location_t`
- `UF_GDT_text_location_p_t`

Overview

The following enumerated type defines the allowable types of appended text locations.

Data Members

UF_GDT_ABOVE

above appended text

UF_GDT_BELOW

below appended text

UF_GDT_BEFORE

before appended text

UF_GDT_AFTER

after appended text

UF_GDT_tol_format_e [\(view source\)](#)

Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_tol_format_t`
- `UF_GDT_tol_format_p_t`

Overview

Defines the valid tolerance display formats for a size tolerance

Data Members

UF_GDT_LIM_MINUS_BEFORE_PLUS

Limits minus before plus

UF_GDT_LIM_PLUS_BEFORE_MINUS

Limits plus before minus

UF_GDT_LIM_MINUS_OVER_PLUS

Limits minus over plus

UF_GDT_LIM_PLUS_OVER_MINUS

Limits plus over minus

UF_GDT_PLUS_OVER_MINUS

Tolerance plus over minus

UF_GDT_MINUS_OVER_PLUS

Tolerance minus over plus

UF_GDT_PLUS_MINUS

Tolerance plus minus

UF_GDT_NO_TOLERANCE

No tolerance defined

UF_GDT_tolerance_type_e ([view source](#))Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_tolerance_type_t`
- `UF_GDT_tolerance_type_p_t`

Overview

Defines the type of tolerances that can be part of a tolerance feature
Tolerance features may include a number of these different types

Data Members**UF_GDT_DATUM_TARGET_POINT_TYPE = 0**

Datum target point tolerance type

UF_GDT_DATUM_TARGET_LINE_TYPE = 1

Datum target line tolerance type

UF_GDT_DATUM_IDENTIFIER_TYPE = 3

Datum identifier type

UF_GDT_DATUM_MULTIPLE_TYPE = 4

Special Multiple datum type

UF_GDT_GEOMETRIC_TOLERANCE_TYPE = 5

Geometric tolerance type

UF_GDT_SIZE_TOLERANCE_TYPE = 6

Size Tolerance type

UF_GDT_DATUM_TARGET_DIA_TYPE = 7

Circular datum target areas

UF_GDT_DATUM_TARGET_RECT_TYPE = 8

Rectangular datum target areas

UF_GDT_DIRECTED_DIMENSION_TYPE = 9

Directed dimension type

UF_GDT_DATUM_TARGET_CYL_TYPE = 10

Cylindrical datum target areas

UF_GDT_WALL_THICKNESS_TYPE = 11

Wall thickness tolerance type

UF_GDT_DEPTH_TOLERANCE_TYPE = 12

Depth Tolerance type

UF_GDT_LIMITS_AND_FITS_TOLERANCE_TYPE = 13

Limits and fits tolerance type

UF_GDT_THREAD_TOLERANCE_TYPE = 14

Thread tolerance type

UF_GDT_DATUM_TARGET_USER_DEFINED_TYPE = 15

User defined datum target type

UF_GDT_zone_shape_e ([view source](#))

Defined in: `uf_gdt.h`

Also known as:

- `UF_GDT_zone_shape_t`
- `UF_GDT_zone_shape_p_t`

Overview

Defines the possible tolerance zone shapes for a feature control frame

Data Members**UF_GDT_SHAPE_PLANAR**

Planar tolerance zone - Planar zones define a tolerance zone which runs parallel to a flat or complex plane.

UF_GDT_SHAPE_CYLINDRICAL

Cylindrical tolerance zone - Cylindrical zones define a tolerance zone which surrounds the **AXIS** of a cylindrical feature.

UF_GDT_SHAPE_SPHERICAL

Spherical tolerance - Spherical zones define a tolerance zone surrounding the center of a spherical feature.

UF_GDT_SHAPE_OFFSET

Profile zone - Offset zones define unilateral or bilateral tolerance zones used for profile tolerances.

